

SPAIN

Many diversified activities can be reported from the Spanish INHIGEO group.

Professor Emerita, Carmina Virgili-Rodón, was awarded the *Medal of Honour of the Complutense University of Madrid*. Due to ill-health she was unable to attend the award ceremony and received the medal at her home in Barcelona.

The XII Conference of Aragonese Palaeontology was held from 19 to 21 April 2013, in Ricla (Zaragoza). This year, the theme was *Exceptional deposits. The 150th anniversary of the Cambrian Murero site*. At this conference, tribute was paid to the old geologist Dr Antonio Perejón. INHIGEO member Rodolfo Gozalo, who is the editor of the *Spanish Review of Palaeontology (Revista Española de Paleontología)*, gave a lecture on “The Cambrian biota of Murero”.

Dr Jaime Truyols Santonja died on August 28, 2013, after a long illness (b. Sabadell, 1921, d. Oviedo, 2013). He had been Professor of Geology at Oviedo University since 1961, and served as President of the Commission on the History of Geology of the Geological Society of Spain, from its foundation in 1994.

INHIGEO member, Emilio Pedrinaci, Professor of Biology and Geology, was invited to the 9th International Congress on Research in Didactics of the Sciences (Gerona, September 2-12, 2013), where he gave a lecture on “Science education in context: Analysis of problems and justified decision-making”. He is the co-director of the magazine *Didactics of Experimental Sciences (Didáctica de las Ciencias Experimentales)* and a member of the Advisory Council of Education on Science in Schools.

In November, Isabel Rábano and Octavio Puche attended a roundtable discussion on *Casiano de Prado's collaboration (1849-1859), organised by the Commission for the Geological Map of Spain*, the predecessor institution of the Spanish Geological Survey. Isabel Rábano is the President of the Commission on the History of Geology of the Geological Society of Spain and the editor of the *Spanish Review of Micropaleontology (Revista Española de Micropaleontología)* and of *De Re Metallica Review*. Another INHIGEO member, Luis Felipe Mazadiego, is the director of this journal.

Publications:

- Aragonès Valls, E. 2013. Los primeros mapas geológicos de España de Édouard de Verneuil (1850-1855). *Boletín Geológico y Minero*, 124, 1, 21-39.
- Carrasco, J., Liñán, E., Liñán, M., Gámez Vintaned, J.A. and Gozalo, R. 2013. Análisis criptopaleontológico del lapidario de Teofrasto (s. III a.C.). *Estudios Geológicos*, 69, 1, 115-122.
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- Martín Scorza, C. 2013. Los primeros mapas del río Cidacos. *Kalakorikos*, 18, 17-25. ISSN: 1137-0572.
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- Pelayo, F. 2013. Sátiros, simios y neandertales. La imagen violenta y salvaje de los antropomorfos en la ciencia y la cultura occidental. En: *Imaginarios del miedo. Estudios desde la historia* (Ette, O.; Naranjo Orovio, C.; Montero, I. eds) Verlag Walter Frey - edition tranvia, Berlín, pp. 45-66.

- Pelayo, F. 2013. La nueva biología y los fósiles humanos: el contexto y la difusión de la Paleontología en España durante el primer franquismo. En: *La tutela imperfecta. Biología y Farmacia en la España del primer franquismo* (González Bueno, A.; Baratas Díaz, A. (eds) Consejo Superior de Investigaciones Científicas, Madrid, pp. 17-54.
- Perejón, A. 2013. La fecunda etapa docente, investigadora y social de Eduardo Hernández-Pacheco en el Instituto de Córdoba, entre 1899 y 1910. Fruitful teaching, researching, and social phases of Eduardo Hernández-Pacheco at Cordova High School between 1899 and 1910. *Bol. R. Soc. Esp. Hist. Nat.* 107, 5-53.
- Puche Riart, O., Boixereu Vila, E. and Dueñas Molina, J. 2013. Custodia del territorio minero español. *De Re Metallica*, 21, 37-43.
- Puche Riart, O. 2013. Rafael Sánchez Lozano. *Diccionario Biográfico de la Real Academia de la Historia*. Vol. XLV.
- Puche Riart, O. 2013. Guillermo Schulz y Schweizer. *Diccionario Biográfico de la Real Academia de la Historia*. Vol. XLVI.
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- Rábano, I. 2013. Colecciones paleontológicas históricas de la provincia de Segovia en el Museo Geominero (IGME, Madrid). In: J. Vegas, A. Salazar, E. Díaz-Martínez & C. Marchán (eds), *Patrimonio geológico, un recurso para el desarrollo*. Cuadernos del Museo Geomino, 15. Instituto Geológico y Minero de España, Madrid, 617-622.
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- Sequeiros, L. 2013. Recensión de J. James Rose. Viaje a la Andalucía Inexplorada. *Enseñanza de las Ciencias de la Tierra*, 20.3, 310-311.
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- Virgili, C. 2014. Scientific premises of geology in the Encyclopédie of Diderot and D'Alembert *Boletín Instituto Geológico y Minero de España*. Vol. homenaje Michel Durand Delga. Octavio Puche, Madrid

Cándido Manuel García Cruz –

Publications :

García Cruz, C. M. 2007. James Hutton (1726-1797) y el mito del eterno retorno: interpretación de la tierra en el siglo xviii, (from James Hutton's *Theory of the Earth* to James Lovelock's *Gaia Hypothesis*). *Asclepio. Revista de Historia de la Medicina y de la Ciencia*, 59, 1, 65-100.

Abstract – In order to understand to what extent James Hutton (1726-1797) can in fact be considered as one of the forerunners of the Gaia Hypothesis, his *Theory of the Earth* is analysed in the context of the three basic traditions of science: organismic, magical and mechanistic. In some authors' opinion, Hutton should have written his *Theory of the Earth* as a superorganism and its proper study should be by physiology. These supposed assertions are merely a misinterpretation of the Huttonian philosophy, since they were never held by this author. Hutton has nevertheless an holistic view which is closer to the Alfred N. Whitehead's organic mechanism than to James Lovelock's *Gaia Hypothesis*, being therefore a clear forerunner of Ludwig von Bertalanffy and his System.

García Cruz, C. M. 2013. James Hutton (1726-1797) y el mito del eterno retorno: interpretación de la tierra en el siglo xviii, (James Hutton (1726-1797) and the myth of eternal return: interpretation of the Earth in the eighteenth century). *Llull*, 36, 78, 259-282.

Abstract – James Hutton's (1726-1797) geological ideas, as expressed in his *Theory of the Earth* (1788, 1795) provided a rational understanding of geological processes and their causal relationships, using a mechanistic model based on Newton's system. On the basis of his Aristotelian roots, however, and unrelated to organicism, it is possible to establish a cultural relationship between Huttonian philosophy and the ancient tradition of the Myth of Eternal Return, allowing thus a consistent explanation of recurrence of the archetypes, chaos–disorder and cosmos–order, with no moral connotation, through natural phenomena of destruction–reconstruction of the terrestrial materials in the shape of endless cycles, with both regular and uniform changes, and wherein the responsible power is the internal heat of the Earth. These ideas also led Hutton to assume an unlimited time period for the age of the planet.

UNITED KINGDOM

Alan Bowden – coedited a new history of foraminiferal micropalaeontology, published in December 2013 by the Geological Society, on behalf of the Micropalaeontological Society.

The book offers a conspectus of selected developments in foraminiferal studies from a global perspective, from the time of Alcide d'Orbigny and the founding of the Paris MNHN collections, in the mid-nineteenth century, to the use of foraminifera in industry, palaeoceanography, environmental and regional studies, as well as in the rise and fall of significant research schools. The volume does not claim to adopt a purist historical approach, as many of the authors are practising micropalaeontologists who have tackled various topics from their own perspective. As a result the papers presented range from purely historical topics to those of a more contemporary nature.

Publication:

Bowden A.J., Gregory F.J. and Henderson, A.S. (eds) 2013. Landmarks in Foraminiferal Micropalaeontology: History and Development. The Micropalaeontological Society, Special Publications. Geological Society, London, 360 p.